## 3 ABSTRACT

4	An application development platform enables applications to be
5	created easily for, e.g., mobile devices that have short-range
6	wireless communication capability. The development platform
7	exposes a carefully chosen core set of services through an API.
8	Each of the applications can broadcast its services to local and
9	remote devices. Message delivery between devices is guaranteed
0	even for messages that cannot be delivered directly by local short-
1	range wireless transmission. Message delivery through other
2	channels, including the Internet, can occur transparently to the
3	user. Each device can be associated with an "owner", which can be
4	a person or a entity. Services can be customized to the owner based
5	on stored information that maps owners to devices. Information
6	associated with each of the owners of devices can be stored
7	centrally and used in connection with providing the services at
8	each of the mobile devices. Virtual GPS capabilities can be
9	provided for mobile devices that do not have GPS chips.

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